

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A flush toilet ~~for a motor vehicle~~ comprising:
a bowl assembly defining a bowl and a discharge opening at a lower end of the bowl;
a waste ball valve assembly mounted to the flush toilet for selectively opening and closing the discharge opening of the bowl assembly;
a water valve assembly for selectively delivering a source of flush water to the bowl, the water valve assembly including a water valve operable in a water valve open condition and a water valve closed condition; and
a common actuator for controlling opening and closing of both the waste ball valve assembly and the water valve assembly, ~~the actuator movable from a first position to an intermediate position and from the intermediate position to a second position such that in the first position the waste ball valve assembly closes the discharge opening and the water valve assembly is in the closed condition, in the intermediate position the waste ball valve assembly closes the discharge opening and the water valve assembly is in the open position for adding water to the bowl, and in the second position the waste ball valve assembly opens the discharge opening and the water valve assembly is in the open position for flushing the bowl.~~

wherein common actuator is connected to one of the waste ball valve assembly and the water valve assembly and the waste ball valve assembly is coupled to the water valve assembly such that the common actuator drives the one of the waste ball valve assembly, and the water valve assembly and movement of the one of the waste ball valve assembly and water valve assembly resultantly drives the other of the waste ball valve assembly and the water valve assembly.

2-54. (Cancelled)

55. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of Claim 1, wherein the waste ball valve is rotatably mounted to the flush toilet.

56. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of Claim 1, wherein the actuator is interconnected to the waste ball valve assembly and the water valve assembly by a flexible cable.

57. (Currently Amended) The toilet ~~for a motor vehicle~~ of Claim 1, wherein the actuator is a foot actuated lever.

58. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of Claim 1, wherein the actuator is positioned proximate a front portion of the flush toilet and the water valve assembly is positioned proximate a rear portion of the flush toilet.

59. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of Claim 1, wherein the actuator is mounted to the flush toilet for rotation about a first axis and the waste ball valve assembly is mounted to the flush toilet for rotation about a second axis, the first axis being substantially perpendicular to the second axis.

60. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of ~~Claim 1~~ Claim 56, wherein the flexible cable is attached to a water valve drive arm for driving the water valve assembly between the open and closed conditions.

61. (Currently Amended) The flush toilet ~~for a motor vehicle~~ of Claim 60, wherein the waste valve assembly is ~~coupled to~~ driven by a waste valve drive arm, the waste valve drive arm being driven by rotation of the water valve drive arm.

62. (Currently Amended) A ~~reduced-water-consumption~~ flush toilet comprising:

a bowl assembly defining a bowl having a discharge outlet at a lower end and a ledge circumferentially extending about a substantial portion of the bowl, the bowl having a rear surface that is generally flat and vertical, the rear surface transitions to the ledge as the bowl continues clockwise and counter clockwise from the rear surface, a horizontal dimension of the ledge increasing as the ledge continues from the rear surface to a front of the bowl, an angle of the ledge increasing as the ledge continues from the rear surface to the front, a maximum slope of the ledge located proximate the front; and

a nozzle mounted to the bowl assembly for pressurizing a source of flush water and delivering the source of flush water to the bowl for rinsing and flushing of the bowl, the nozzle positioned at a rear portion of the bowl and operative to produce a first flow of water in a first circumferential direction about the bowl and a second flow of water in a second circumferential direction about the bowl, the second circumferential direction being opposite to the first circumferential direction;

wherein the ledge cascades the first and second flows of flush water down the bowl as the first and second flows of water move in the first and second circumferential directions, respectively.

63. (Cancelled)

64. (Currently Amended) The ~~reduced-water-consumption~~ flush toilet of Claim 62, wherein the first and second flows of water converge at an imaginary line passing through the nozzle and a front portion of the bowl directly opposite the nozzle.

65. (Cancelled)

66. (Currently Amended) The ~~reduced-water-consumption~~ flush toilet of Claim 62, wherein the first and second flows of water create ~~a symmetrical~~ an asymmetrical flow pattern in which the first flow of water circumferentially travels significantly further around the bowl compared to the second flow of water when the first and second flows of water converge.

67. (Cancelled)

68. (Currently Amended) The ~~reduced water consumption~~ flush toilet of Claim 64, wherein the imaginary line defines a tangent to the bowl located approximately 120 degrees clockwise from the nozzle.

69. (Currently Amended) A flush toilet comprising:

a base;

a bowl assembly defining a bowl, the bowl assembly mounted to the base and defining a discharge opening at a lower end of the bowl;

a waste ball valve assembly mounted to the flush toilet for selectively opening and closing the discharge opening of the bowl assembly; and

a common sealing member for sealing the bowl to the base and for wiping a ball of the waste ball valve assembly as the waste ball valve assembly is selectively opened and closed;

the common sealing member having a generally horizontal portion for wiping the ball of the ball valve assembly and a compressible cylindrical portion upwardly extending from the generally horizontal portion, the cylindrical portion compressed between the base and the bowl to define a seal therebetween.

70. (Cancelled)

71. (Cancelled)

72. (Currently Amended) The flush toilet of ~~Claim 71~~ Claim 69, wherein the generally horizontal portion ~~first portion is constructed of a relatively incompressible material and the second portion is constructed of a relatively compressible material~~ compared to the cylindrical portion.

73. (Currently Amended) The flush toilet of Claim 69, wherein the ~~first~~ generally horizontal portion is laminated to the cylindrical portion.

74. (Currently Amended) The flush toilet of Claim 69, wherein an underside of the ~~first~~ generally horizontal portion is treated to reduce a coefficient of friction.

75. (New) The flush toilet of Claim 69, wherein the generally horizontal portion defines a central opening, the central opening tapering in an upward direction.

76. (New) The flush toilet of Claim 69, wherein the actuator is movable from a first position to an intermediate position and from the intermediate position to a second position such that in the first position the waste ball valve assembly closes the discharge opening and the water valve assembly is in the closed condition, in the intermediate position the waste ball valve assembly closes the discharge opening and the water valve assembly is in the open position for adding water to the bowl, and in the

second position the waste ball valve assembly opens the discharge opening and the water valve assembly is in the open position for flushing the bowl.

77. (New) The flush toilet of Claim 76, wherein waste valve assembly is coupled to the water valve assembly through a lost motion connection.

78. (New) The flush toilet of Claim 1, wherein the common actuator is connected to the water valve assembly for driving the water valve assembly and the water valve assembly is connected to the waste ball valve assembly for driving the waste ball valve assembly.

79. (New) The flush toilet of Claim 1, wherein the common actuator is connected to the waste ball valve assembly for driving the waste ball valve assembly and the waste ball valve assembly is connected to the water valve assembly for driving the water valve assembly.